

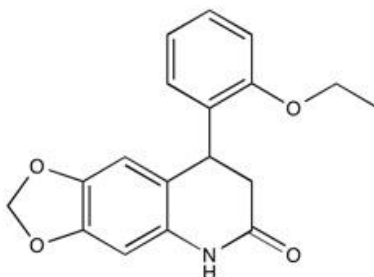
**Catalog # 10-1360**

**FQ11**

CAS# 599151-35-6

8-(2-Ethoxyphenyl)-7,8-dihydro-[1,3]dioxolo[4,5-g]quinoline-6(5H)-one

Lot # X104531



Inhibitor of transcription factor LSF specifically targeting its DNA binding and corresponding transcriptional activity ( $IC_{50}=2.1 \mu M$ ). Rapidly induces apoptosis in an aggressive hepatocellular carcinoma (HCC) cell line and dramatically inhibits tumor growth in a mouse xenograft model with no general tissue cytotoxicity.<sup>1,2</sup> In human HCC cells, FQ11 induced mitotic arrest with an accompanying increase in cyclin B1.<sup>3</sup> Blocks LSF-stimulated activation of DNA methyltransferase 1.<sup>4</sup> Cell permeable.

- 1) Grant *et al.* (2012), *Antiproliferative small-molecule inhibitors of transcription factor LSF reveal oncogene addiction to LSF in hepatocellular carcinoma*; Proc. Natl. Acad. Sci. USA, **109** 4503
- 2) Santhekadur *et al.* (2012), *The transcription factor LSF: a novel oncogene for hepatocellular carcinoma*; Am. J. Cancer Res., **2** 269
- 3) Raiasekaran *et al.* (2015), *Small molecule inhibitors of Late SV40 Factor (LSF) abrogate hepatocellular carcinoma (HCC): Evaluation using an endogenous HCC model*; Oncotarget **6** 26266
- 4) Chin *et al.* (2016), *Transcription factor LSF-DNMT1 complex dissociation by FQ11 leads to aberrant DNA methylation and gene expression*; Oncotarget, **7** 83627

**PHYSICAL DATA**

Molecular Weight:	311.33
Molecular Formula:	C <sub>18</sub> H <sub>17</sub> NO <sub>4</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml) or Ethanol (up to 20 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.